

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: G2-2210-802-28

Luminaire Tested: PRLX-401-FR-120-WHST-RHL-TFIN-DW-WH

Test Date: 01/03/23



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-28
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 01/03/23
Issue Date: 01/03/23
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-401-FR-120-WHST-RHL-TFIN-DW-WH
Description: 400-SERIES 3D PRINTED LED LAMP BASED DECORATIVE LUMINAIRE, WHITE (OPAQUE) SHADE, FROSTED LAMP
Light Source: 1 PHILIPS 60W FROSTED BULB
FROSTED BULB - 60W EQUIVALENT 929002036204 8.8A19/PER/930/P/E26/DIM
6/1FB T20. PHILIPS
Ballast/Driver: INTEGRAL TO LAMP

Summary

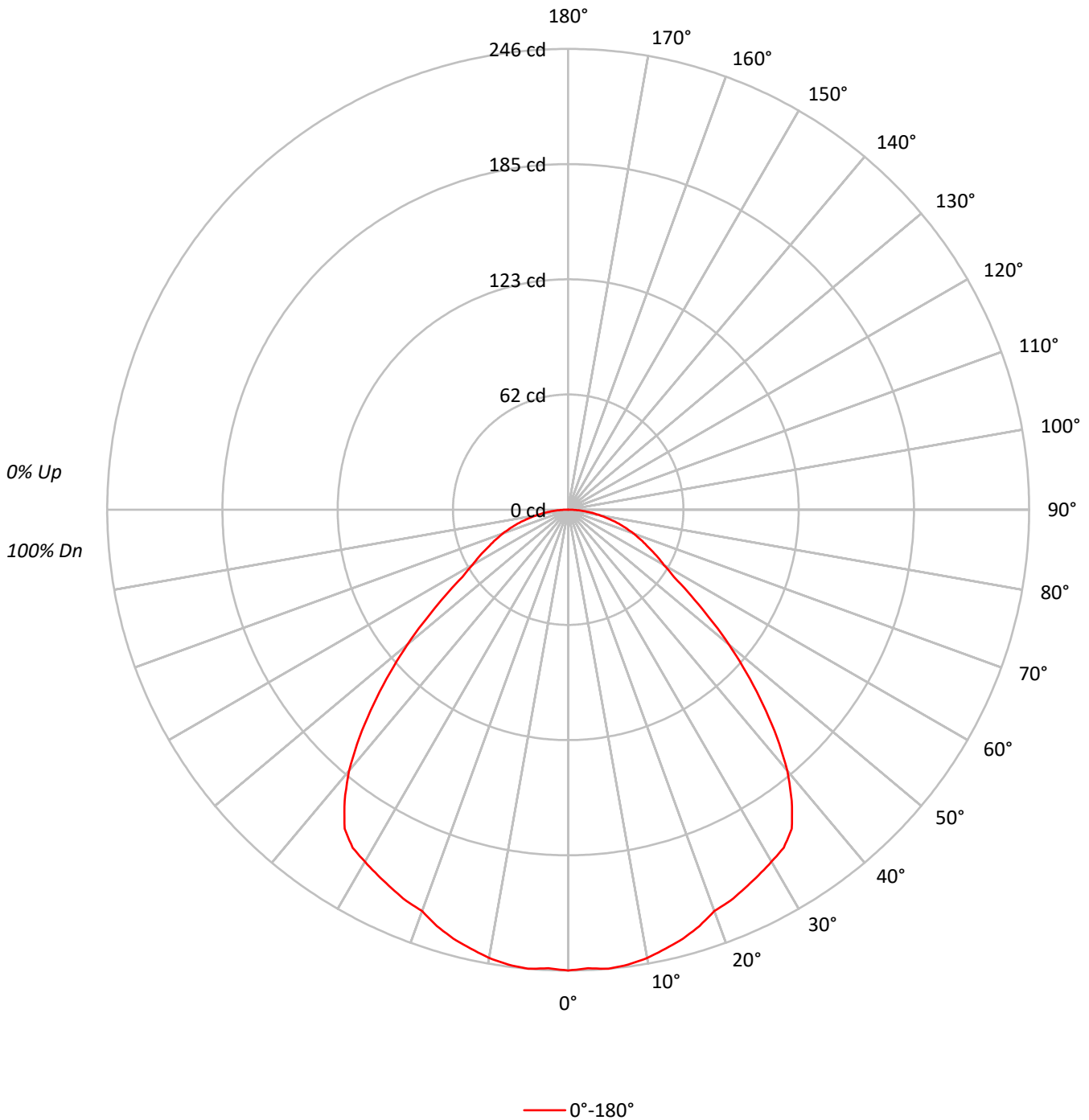
Lumens per Lamp: N/A
Luminaire Lumens: 591.8 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.33
Luminous Opening: Vertical Cylinder (Dia: 0.67' x H: 0.92')
CIE Type: Direct

Input Watts (W): 7.7
Input Voltage (V): 120.1
Input Current (A_{in}): 0.0675
Voltage Rise (V): NR
Power Factor: 0.949
Total Harmonic Distortion (THDi): 24.7%
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.4
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7586
5°	6603
10°	5814
15°	5150
20°	4570
25°	4177
30°	3843
35°	3518
40°	2967
45°	2331
50°	1741
55°	1229
60°	902
65°	721
70°	574
75°	427
80°	276
85°	135

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2331 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.4	3.9
10°-20°	66.8	11.3
20°-30°	103.0	17.4
30°-40°	128.0	21.6
40°-50°	113.1	19.1
50°-60°	73.0	12.3
60°-70°	47.0	7.9
70°-80°	28.5	4.8
80°-90°	9.1	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	193.2	32.6
0°-40°	321.1	54.3
0°-60°	507.2	85.7
0°-90°	591.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	591.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	246	
5°	246	23
15°	237	67
25°	223	103
35°	208	128
45°	147	113
55°	80	73
65°	47	47
75°	27	28
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	246
2.5°	245
5°	246
7.5°	245
10°	243
12.5°	240
15°	237
17.5°	233
20°	228
22.5°	226
25°	223
27.5°	220
30°	217
32.5°	214
35°	208
37.5°	196
40°	182
42.5°	165
45°	147
47.5°	129
50°	112
52.5°	95
55°	80
57.5°	67
60°	59
62.5°	53
65°	47
67.5°	42
70°	37
72.5°	32
75°	27
77.5°	22
80°	17
82.5°	13
85°	8
87.5°	4
90°	0

(END OF REPORT)